FAA-E-2538b
AMENDMENT-1
March 8, 1976

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
SPECIFICATION

TRANSCRIBED WEATHER BROADCAST EQUIPMENT

This amendment forms a part of FAA-E-2538b dated February 6, 1976.

Pages 30 and 31: Delete. Replace with pages 30 and 31 enclosed herewith.

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(TABLE IV continued from page 28)

CLASS	TEST	PARAGRAPH
DTP	Audio input level	3.3.1.4, 3.3.2.3
D	Audio output impedance	3.3.1.5, 3.3.2.3
DTP	Audio output level	3.3.1.5, 3.3.2.3
D	Control site/remote site mode wire strap	3.3.1.1, 3.3.1.1.1
DTP	Control unit amplifier	3.3.3.6
D	Control unit hardware	3.3.3.5 to 3.3.3.5.24
DTP	Deck light	3.3.3.5.20
D	Erasure	3.3.1.16, 3.3.2.3
DPT	Error detection	3.3.4.3.2.5
DPT	Error tone	3.3.4.3.3
DTP	Flutter and WOW	3.3.1.10, 3.3.2.3
DTP	Frequency response	3.3.1.6, 3.3.2.3
DTP	Frequency response (control)	3.3.3.6.2
DT	Harmonic distortion	3.3.1.8, 3.3.2.3
D	Harmonic distortion (control)	3.3.3.6.4
DT	Hum distortion	3.3.1.9, 3.3.2.3
DTP	Indicator light	3.3.3.5.17
DTP	Inscription	3.3.3.5.21
D	Local/remote control	3.3.3.5.13
D	Maintainability	3.6.2
D	Major functions	3.3.1, 3.3.2, 3.3.3.4
D	Message length	3.3.1.14, 3.3.2.3
DTP	Microphone	3.3.3.5.24
D	Mode lights	3.3.3.5.8, 3.3.3.5.9, 3.3.3.5.18 to 3.3.3.5.20
	Monitor	
DTP	Jacks	3.3.3.7.1
DTP	Selection	3.3.3.5.14
DTP	Speaker	3.3.3.7.2
DTP	Switch	3.3.3.7.4
DTP	Volume control	3.3.3.7.3
DTP	Noise	3.3.1.7, 3.3.2.3
D	Noise (control)	3.3.3.6.3
DTP	On-off power switch	3.3.3.5.6
D	Operational test, 7 days	4.5
DTP	Override	3.3.3.5.7
DTP	Override switch	3.3.3.5.7
DTP	Patch Panel	3.3.3.1.3(e) 3.3.3.1.3.2
DTP	Playback speed, main	3.3.1.12, 3.3.2.3
DTP	Primary cue	3.3.3.4.2, 3.3.2.4, 3.3.1
DTP	Ready light	3.3.3.5.19
DTP	Ready tone	3.3.4.3.2.7
D	Record channel	3.3.1, 3.3.2
DTP	Record light	3.3.3.5.18
D	Record/playback switch	3.3.3.5.8

(TABLE IV continued on page 30)

(TABLE IV continued from page 29)

CLASS	TEST	PARAGRAPH
DTP	Record standby (transcribe)	3.3.3.5.12
DT	Recording, erase, and monitor head	3.3.1.11, 3.3.2.3
D	Reliability	3.6.1
DPT	Remote site control decoder	3.3.4.3.5
DPT	Remote site control encoder	3.3.4.3.4
DPT	Remote site signal decoder	3.3.4.9
DPT	Remote site signal encoder	3.3.4.8
D	Response time	3.3.1.17, 3.3.2.3
DTP	Start function	3.3.3.5.5, 3.3.3.5.12
DTP	Stop function	3.3.2.4, 3.3.3.5(q)
DTP	Tape speed compiler	3.3.3.5.3, 3.3.3.5.16
D	Thermal design tests	4.4
DTP	Time selection	3.3.3.5.4
DTP	Timer	3.3.3.5.23
D	VU meter	3.3.3.5.22

4.4 Thermal design tests.- The contractor shall perform a thermal design test on the equipment to verify that no hot spots exist and that the component temperature data used for the reliability prediction is accurate. This test shall be conducted under environmental conditions of 50° C and 80 percent relative humidity simultaneously with the design qualification test. Magnetic tapes in spools, cassettes, and cartridges shall be excluded from this test. The FAA Technical Representative shall determine where thermocouples will be placed on the equipment for this test prior to beginning the type test.

4.5 Operational test, 7 days.- The 7-day test run shall be made as follows:

The equipment shall be placed in operation and recordings made on each channel. The time duration of the information on the different channels shall be irregular. The equipment shall stay in operation continuously during the 7-day run. During one 8-hour period of each 24 hours during the 7-day run, old information shall be erased and new information recorded on all channels, once each hour for the full 8 hours. All functions and controls shall be operated at least once per hour during each of these 8-hour periods. At the end of the 7-day run all the other tests required to meet this specification shall be made without cleaning heads or demagnetizing the heads and without changing the recording medium.

5. PREPARATION FOR DELIVERY

5.1 Shipment of material.- Shipment of material from the contractor's plant to a specific site within the continental limits of the United States for immediate use shall be prepared for delivery using Level C of MIL-E-17555.

5.2 Material for inventory storage.- Material delivered for inventory storage shall be handled, preserved, and packed at Level A of MIL-E-17555.

5.3 Equipment for storage.- Equipment delivered for storage at FAA or a Government facility shall be handled, preserved, and packed at Level A of MIL-E-17555.

5.4 Small component material.- Small components shall be identified by tagging each item and marking the outside of individual containers as required by FAA-G-2100/1. Small components shall be handled, preserved, and packed at Level C of MIL-E-17555.

6. NOTES

6.1 Note on information items.- The contents of this section are only for the information of the initiator of the procurement requested and are not a part of the requirements of this specification. They are not contract requirements nor binding on either the Government or the contractor. In order for these terms to become a part of the resulting contract, they must be specifically incorporated in the schedule of the contract. Any reliance placed by the contractor on the information in these subparagraphs is wholly at the contractor's own risk.

6.2 Available commercial equipment of high quality.- It is the intent of the Government to purchase high quality commercially produced tape transports and tape devices of proven design.

6.3 Applicability of figures.- Figures 1, 3, and 4 are informational in character.

6.4 Options.- The contract schedule will state the applicability of paragraphs 3.3, 3.3.1, 3.3.1.1, 3.3.1.1.1, 3.3.2.7, 3.3.3.3, 3.3.3.5.11, 3.3.4 and subordinate paragraphs. These paragraphs refer to remote site broadcast capability for the TWEBE system. It is the intent of this specification that the remote site broadcast capability will not be implemented except as stated by contract. The environmental temperature option in 3.6.1.1 may be defined in the contract schedule.

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FOR FIGURES 1 TO 4, SEE PAGES 32 to 35

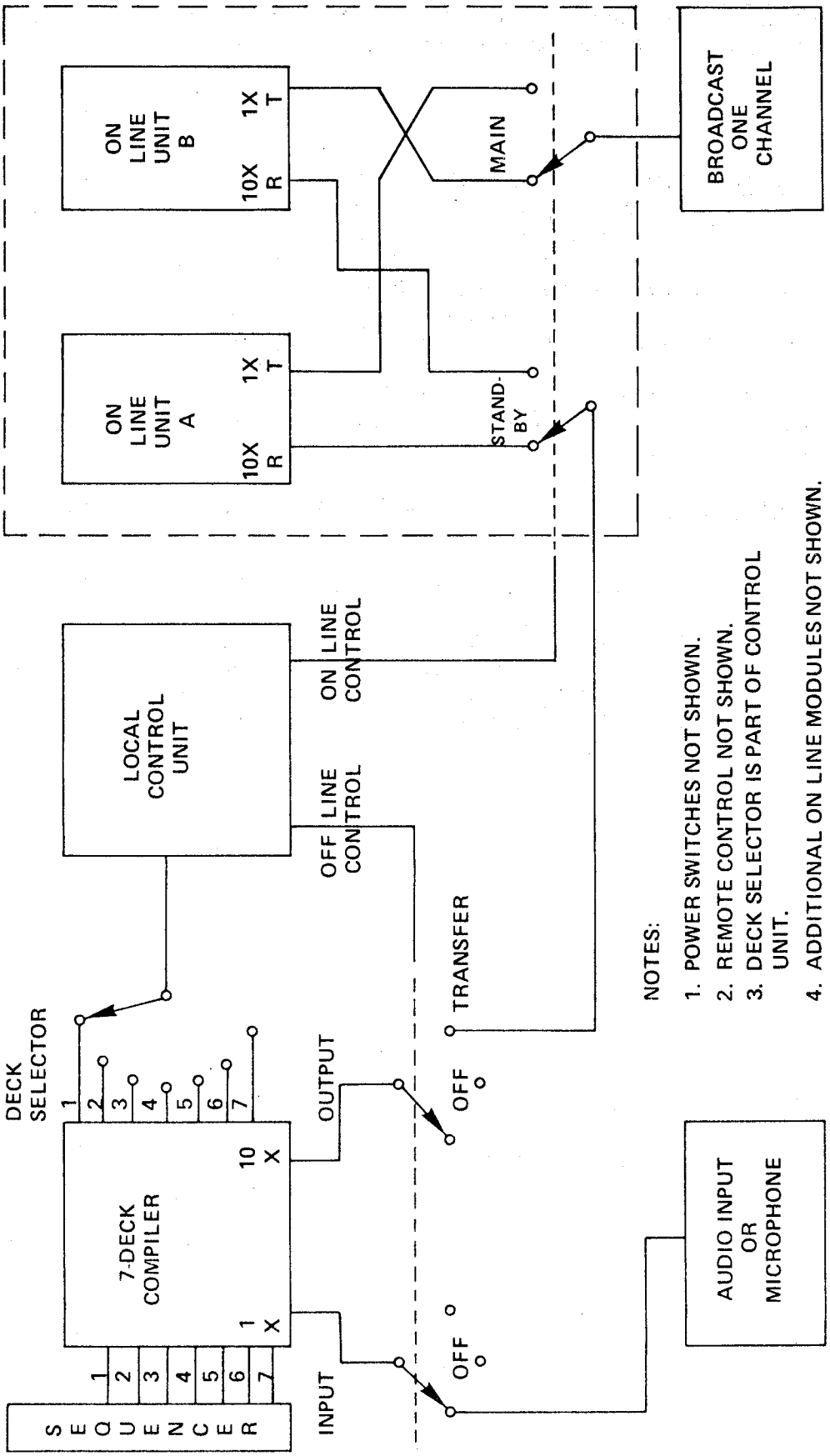

FIGURE 1. BLOCK DIAGRAM OF TWEBE SYSTEM

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